

Notice of Allowability

Application No.

10/534,106

Applicant(s)

YONEDA ET AL.

Examiner

Chuc D. Tran

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to March 12, 2004.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 05/06/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



**HOANG V. NGUYEN
PRIMARY EXAMINER**

DETAILED ACTION

Remarks

1. This action is responsive to the application filed May 06, 2005.
2. Claims 1-10 have been examined.

Priority

3. The Office acknowledges this application's claim of priority under 35 U.S.C. Section 119(a-d) this application is a 371 of PCT/JP04/03303 03/12/2004.

Oath/Declaration

4. The Office acknowledges receipt of a properly signed oath/declaration filed May 06, 2005.

Drawings

5. The drawings were received on May 06, 2005. These drawings are accepted.

Allowable Subject Matter

6. Claims 1-10 are allowed.

Reasons for Allowance

7. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose the combination of the limitations as set forth in the claim: a first rectangular waveguide for propagating the third linearly polarized wave signal outputted thereto from the second orthomode transducer; a second rectangular waveguide disposed bilateral symmetrically to the first rectangular waveguide, for propagating the fourth linearly polarized wave signal outputted thereto from the second orthomode transducer; a third orthomode transducer disposed below the second orthomode transducer, for combining the third

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and fourth linearly polarized wave signals respectively propagated thereto by the first and the second rectangular waveguides into a circularly polarized wave signal, and for outputting the circularly polarized wave signal; and a radiator disposed above the third orthomode transducer, for emitting the circularly polarized wave signal outputted thereto from the third orthomode transducer to a reflector in independent claim 1.

Regarding claims 2-10 are allowable for the reasons given above because of their dependency status from independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation of relevant prior art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Boldissar, Jr. (USP. 5,784,033) disclose plural frequency antenna feed.

Prior art Ergene (USP. 6,323,819) disclose dual band multimode coaxial tracking feed.

Prior art Shea et al (USP. 6,392,957) disclose method and apparatus for transmitting and receiving multiple frequency bands simultaneously.

Prior art Pellegreneschi (USP. 5,075,649) disclose adaptive phase and amplitude distributor.

Prior art Massaglia et al (USP. 4,498,062) disclose waveguide structure for separating microwaves with mutually orthogonal planes of polarization.

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Prior art Raghavan et al (USP. 4,972,199) disclose low cross-polarization radiator of circularly polarized radiation.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC
March 16, 2006



HOANG V. NGUYEN
PRIMARY EXAMINER